

# Ibm Tape Library

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IBM Tape Library Guide for Open Systems  
 The Journey Continues: From Data Lake to Data-Driven Organization  
 Highly Efficient Data Access with RoCE on IBM Elastic Storage Systems and IBM Spectrum Scale  
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 IBM System Storage Tape Library Guide for Open Systems  
 IBM DS8900F Architecture and Implementation  
 IBM ProtectTIER Implementation and Best Practices Guide

*Ibm Tape Library*

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## GOODMAN RISHI

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**IBM Tape Library Guide for Open Systems** IBM Redbooks  
 With Remote Direct Memory Access (RDMA), you can make a subset of a host's memory directly available to a remote host. RDMA is available on standard Ethernet-based networks by using the RDMA over Converged Ethernet (RoCE) interface. The RoCE network protocol is an industry-standard initiative by the InfiniBand Trade Association. This IBM® Redpaper publication describes how to set up RoCE to use within an IBM Spectrum® Scale cluster and IBM Elastic Storage® Systems (ESSs). This book is targeted at technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) who are responsible for delivering cost-effective storage solutions with IBM Spectrum Scale and IBM ESSs.

[The Journey Continues: From Data Lake to Data-Driven Organization](#) IBM.Com/Redbooks

This IBM® Redbooks® publication describes the concepts, architecture, and implementation of the IBM DS8900F family. This

book provides reference information to assist readers who need to plan for, install, and configure the DS8900F systems. This edition applies to DS8900F systems running microcode Release 9.0 (Bundle 89.0 / Licensed Machine Code (LMC) 7.9.0.xxx). The DS8900F family offers two new classes: IBM DS8910F: Flexibility Class all-flash: The Flexibility Class is designed to reduce complexity while addressing various workloads at the lowest DS8900F family entry cost. IBM DS8950F: Agility Class all-flash: The Agility Class is designed to consolidate all your mission-critical workloads for IBM Z®, IBM LinuxONE, IBM Power Systems, and distributed environments under a single all-flash storage solution. The DS8900F architecture relies on powerful IBM POWER9™ processor-based servers that manage the cache to streamline disk input/output (I/O), which maximizes performance and throughput. These capabilities are further enhanced by High-Performance Flash Enclosures (HPFE) Gen2. Like its predecessors, the DS8900F supports advanced disaster recovery (DR) solutions, business continuity solutions, and thin provisioning. The IBM DS8910F Rack-Mounted model 993 is described in a separate publication, IIBM DS8910F Model 993 Rack-Mounted Storage System, REDP-5566.

### Highly Efficient Data Access with RoCE on IBM Elastic Storage Systems and IBM Spectrum Scale

**IBM Redbooks**  
The IBM® Linear Tape File System (LTFS) is the first file system that works in conjunction with Linear Tape-Open (LTO) tape technology to set a new standard for ease of use and portability for open systems tape storage. In 2011, LTFS won an Engineering Emmy Award for Innovation from the Academy of Television Arts & Sciences. This IBM Redbooks® publication helps you install, tailor, and configure the new IBM Linear Tape File System Single Drive Edition (LTFS SDE), Library Edition (LTFS LE), and Storage Manager (LTFS SM). LTFS is a file system that is implemented on dual-partition linear tape (IBM LTO Ultrium 5 tape drives (LTO-5), IBM LTO Ultrium 6 tape drives (LTO-6), and IBM TS1140 tape drives). LTFS makes tape look and work like any removable media, for example, a USB drive. Files and directories appear on the desktop as a directory listing. It is now simple to drag files to and from tape. Any application that is written to use disk files works with the same files on tape. LTFS SDE supports stand-alone drives only. LTFS LE supports tape libraries. LTFS LE presents each cartridge in the library as a subdirectory in the LTFS file system. With LTFS LE, you can list the contents and search all of the volumes in the library without mounting the volumes by using an in-memory index. The LTFS SM software solution provides storage lifecycle management of archive files. Although both the LTFS SDE and the LTFS LE can write data on tape, LTFS SM provides the interface to manage files of all types in a file system structure. This file system structure makes the control of the tape library transparent to the user. LTFS SM also provides policy-based management, job scheduling, and automated file management. It provides an integrated solution to tape library users that is designed to easily manage archives at a reduced cost. It provides the tools to manage the archived files on the LTFS tapes, to group tapes into pools, and to use multiple LTFS LE nodes to scale out the LTFS archive. Metadata can be used to arrange, search, and manage the files at convenience of the users according to the policies that they choose. This publication is intended for anyone who wants to understand more about IBM Linear Tape System products and their implementation. This book is suitable for IBM clients, IBM Business Partners, IBM specialist sales representatives, and technical specialists.

### IBM Spectrum Protect Plus Protecting Database Applications IBM Redbooks

This IBM® Redbooks® publication follows The IBM System Storage Tape Libraries Guide for Open Systems, SG24-5946, and can help you plan, install, and configure IBM Ultrium LTO tape drives, as well as the TS1120 Tape Drive and libraries in i5/OS® environments. The book focuses on the setup and customization of these drives and libraries. The first part of the book gives an overview of the System i™ family of servers and describes how to attach and configure the drives and libraries. It also covers basic installation and administration. We describe the sharing and partitioning of libraries and explain the concept and usage of the Advanced Library Management System (ALMS). In the second part of the book, we document how to use these products with Backup Recovery and Media Services (BRMS), how to implement Tape Encryption, and how to use the IBM TS7520 Virtualization Engine™ with i5/OS. This book can help IBM personnel, Business Partners, and customers to better understand and implement the IBM Ultrium LTO product line, and also the TS1120 Tape Drive attached to System i servers. We assume that the reader is familiar with tape drives and libraries and has a basic understanding of System i servers and i5/OS

### IBM System Storage Tape Library Guide for Open Systems IBM Redbooks

IBM® Spectrum Virtualize is a key member of the IBM

Spectrum® Storage portfolio. It is a highly flexible storage solution that enables rapid deployment of block storage services for new and traditional workloads, whether on-premises, off-premises, or a combination of both. The initial release of IBM Spectrum Virtualize for Public Cloud is now available on Amazon Web Services (AWS). This IBM Redpaper™ publication gives a broad understanding of the IBM Spectrum Virtualize for Public Cloud on AWS architecture. It also provides planning and implementation information about the common use cases for this new product. This publication helps storage and networking administrators plan, implement, install, modify, and configure the IBM Spectrum Virtualize for Public Cloud on AWS offering Version 8.3.1. It also provides a detailed description of troubleshooting tips.

### DFSMSrmm Primer Tuttle Publishing

Abstract This IBM® Redbooks® publication presents a general introduction to the latest IBM tape and tape library technologies. Featured tape technologies include the IBM LTO Ultrium and Enterprise 3592 tape drives, and their implementation in IBM tape libraries. This 15th edition includes information about the latest TS4300 Ultrium tape library, TS1155 Enterprise tape drive, and the IBM Linear Tape-Open (LTO) Ultrium 8 tape drive, along with technical information about each IBM tape product for open systems. It includes generalized sections about Small Computer System Interface (SCSI) and Fibre Channel connections, and multipath architecture configurations. This book also covers tools and techniques for library management. It is intended for anyone who wants to understand more about IBM tape products and their implementation. It is suitable for IBM clients, IBM Business Partners, IBM specialist sales representatives, and technical specialists. If you do not have a background in computer tape storage products, you might need to read other sources of information. In the interest of being concise, topics that are generally understood are not covered in detail.

### IBM i5/iSeries Primer IBM Redbooks

IBM® Spectrum Protect Plus is a data protection solution that provides near-instant recovery, replication, retention management, and reuse for virtual machines, databases, and application backups in hybrid multicloud environments. This IBM Redpaper publication focuses on protecting database applications. IBM Spectrum® Protect Plus supports backup, restore, and data reuse for multiple databases, such as Oracle, IBM Db2®, MongoDB, Microsoft Exchange, and Microsoft SQL Server. Although other IBM Spectrum Protect Plus features focus on virtual environments, the database and application support of IBM Spectrum Protect Plus includes databases on virtual physical servers.

### **Implementation Guide for IBM Elastic Storage System 5000** IBM Redbooks

This IBM® Redbooks® product guide describes the IBM Storage Networking SAN24B-6 switch. Explosive data growth, coupled with user expectations of unlimited access from anywhere, at any time, is pushing storage environments to the limit. To meet these dynamic business demands, the network must evolve to improve speed, increase efficiency, and reduce costs. Legacy infrastructures were not designed to support the performance requirements of flash-based storage technology. A new approach to storage networking is required to unlock the full capabilities of all-flash arrays. By treating the network as a strategic part of a storage environment, organizations can maximize their productivity and efficiency, even as they rapidly grow their environments. The IBM Storage Networking SAN24B-6 switch provides exceptional value in an entry-level switch, combining high-performance capabilities of 4, 8, 16, and 32 Gbps, point-and-click simplicity, and enterprise-class functionality. The port speed

capability is dependent on the transceiver installed. SAN24B-6 provides small to midsized data centers with low-cost access to industry-leading Gen 5 and Gen 6 Fibre Channel technology and the ability to start small and grow on demand from 8 to 24 ports to support an evolving storage environment. In addition, SAN24B-6 is easy to use and install, with a point-and-click user interface that simplifies deployment and saves time.

*IBM Tape Library Guide for Open Systems* IBM.Com/Redbooks

In today's fast-changing business environment, those firms that want to remain competitive must also be innovative. Innovation is not simply about developing new technologies into new products or services, but in many cases, finding new models for doing business in the face of change. It often entails changing the rules of the game. Strategic Innovation demonstrates to students how to create and appropriate value using new game strategies to gain competitive advantage. The book begins with a summary of the major strategic frameworks and showing the origins of strategic innovation. Next, Afuah gives a thorough examination of contemporary strategy from an innovation standpoint, including: how to develop strategy in the face of change a detailed framework for assessing the profitability potential of a strategy or product consideration of how both for-profit and non-profit organizations can benefit from new game strategies. With a wealth of quantitative examples of successful strategies, as well as descriptive cases, Strategic Innovation will complement courses in strategy, and technology and innovation.

**Introduction to Storage Area Networks** IBM.Com/Redbooks

This IBM® Redbooks® publication presents a general introduction to Linear Tape-Open (LTO) technology and the implementation of corresponding IBM products. The IBM Enterprise 3592 Tape Drive also is described. This tenth edition includes information about the latest enhancements to the IBM Ultrium family of tape drives and tape libraries. In particular, it includes details of the latest IBM LTO Ultrium 6 tape drive technology and its implementation in IBM tape libraries. Information is included about the recently released, enhanced, higher-performance ProtecTIER servers and the features of the new version 3.2 server software. The new software also enables a new feature, the File System Interface (FSI). It also contains technical information about each IBM tape product for Open Systems. It includes generalized sections about Small Computer System Interface (SCSI) and Fibre Channel connections and multipath architecture configurations. This book also includes information about tools and techniques for library management. This edition includes details about Tape System Library Manager (TSLM). TSLM provides consolidation and simplification in large TS3500 Tape Library environments, including the IBM Shuttle Complex. This publication is intended for anyone who wants to understand more about IBM tape products and their implementation. This book is suitable for IBM clients, IBM Business Partners, IBM specialist sales representatives, and technical specialists. If you do not have a background in computer tape storage products, you might need to reference other sources of information. In the interest of being concise, topics that are generally understood are not covered in detail.

**IBM TS7700 Release 4.2 Guide** Three Rivers Press

Ries and Trout share their rules for certain successes in the world of marketing. Combining a wide-ranging historical overview with a keen eye for the future, the authors bring to light 22 superlative tools and innovative techniques for the international marketplace.

**STORAGE NETWORKS EXPLAINED: BASIC AND APPLICATIONS OF FIBRE CHANNEL SAN, NAS, ISCSI AND INFINIBAND** IBM Redbooks

This IBM® Redbooks® publication introduces and describes the

IBM Elastic Storage® Server 5000 (ESS 5000) as a scalable, high-performance data and file management solution. The solution is built on proven IBM Spectrum® Scale technology, formerly IBM General Parallel File System (IBM GPFS). ESS is a modern implementation of software-defined storage, making it easier for you to deploy fast, highly scalable storage for AI and big data. With the lightning-fast NVMe storage technology and industry-leading file management capabilities of IBM Spectrum Scale, the ESS 3000 and ESS 5000 nodes can grow to over YB scalability and can be integrated into a federated global storage system. By consolidating storage requirements from the edge to the core data center — including kubernetes and Red Hat OpenShift — IBM ESS can reduce inefficiency, lower acquisition costs, simplify storage management, eliminate data silos, support multiple demanding workloads, and deliver high performance throughout your organization. This book provides a technical overview of the ESS 5000 solution and helps you to plan the installation of the environment. We also explain the use cases where we believe it fits best. Our goal is to position this book as the starting point document for customers that would use the ESS 5000 as part of their IBM Spectrum Scale setups. This book is targeted toward technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) who are responsible for delivering cost-effective storage solutions with ESS 5000.

**IBM System Storage Tape Library Guide for Open Systems** Routledge

The ABCs of IBM z/OS® System Programming is a 13-volume collection that provides an introduction to the z/OS operating system and the hardware architecture. Whether you are a beginner or an experienced system programmer, the ABCs collection provides the information that you need to start your research into z/OS and related subjects. The ABCs collection serves as a powerful technical tool to help you become more familiar with z/OS in your current environment, or to help you evaluate platforms to consolidate your e-business applications. This edition is updated to z/OS Version 2 Release 3. The other volumes contain the following content: Volume 1: Introduction to z/OS and storage concepts, TSO/E, ISPF, JCL, SDSF, and z/OS delivery and installation Volume 2: z/OS implementation and daily maintenance, defining subsystems, IBM Job Entry Subsystem 2 (JES2) and JES3, link pack area (LPA), LNKLST, authorized libraries, System Modification Program Extended (SMP/E), IBM Language Environment Volume 4: Communication Server, TCP/IP, and IBM VTAM® Volume 5: Base and IBM Parallel Sysplex®, System Logger, Resource Recovery Services (RRS), global resource serialization (GRS), z/OS system operations, automatic restart manager (ARM), IBM Geographically Dispersed Parallel Sysplex™ (IBM GDPS) Volume 6: Introduction to security, IBM RACF®, Digital certificates and PKI, Kerberos, cryptography and z990 integrated cryptography, zSeries firewall technologies, LDAP, and Enterprise Identity Mapping (EIM) Volume 7: Printing in a z/OS environment, Infoprint Server, and Infoprint Central Volume 8: An introduction to z/OS problem diagnosis Volume 9: z/OS UNIX System Services Volume 10: Introduction to IBM z/Architecture®, the IBM Z platform, IBM Z connectivity, LPAR concepts, HCD, and DS Storage Solution. Volume 11: Capacity planning, performance management, WLM, IBM RMFTM, and SMF Volume 12: WLM Volume 13: JES3, JES3 SDSF

**IBM z15 (8561) Technical Guide** John Wiley & Sons

Enterprises are struggling to provide the right storage infrastructure to keep up with the explosion of unstructured data in addition to facing increased pressure to retain this data for an extended period of time. Object storage is rapidly emerging as a viable method for building scalable big data archiving solutions to address these unstructured data growth challenges. OpenStack

Swift is an emerging open source object storage platform that is widely used for cloud storage. IBM® Spectrum Scale V4.2 delivers a fast, highly available, highly scalable shared file system that enables transparent access to files and objects spanning different storage tiers such as flash, disk, and tape. IBM Spectrum™ Archive Enterprise Edition is designed to enable the use of IBM Linear Tape File System™ (LTFS) for the policy management of tape as a storage tier in IBM Spectrum Scale™ to significantly reduce cost. This IBM Redpaper™ publication describes how to create an Enterprise class, low-cost, highly scalable object storage infrastructure with IBM Spectrum Scale 4.2, leveraging OpenStack Swift and IBM Spectrum Archive™. It describes benefits of the solution and provides reference architectures, preferred practices, and runtime considerations. It is suitable for IBM clients, IBM Business Partners, IBM specialist sales representatives, and technical specialists.

#### Active Archive Implementation Guide with IBM Spectrum Scale Object and IBM Spectrum Archive IBM Redbooks

This IBM® Redbooks® publication describes the features and functions the latest member of the IBM Z® platform, the IBM z15™ (machine type 8561). It includes information about the IBM z15 processor design, I/O innovations, security features, and supported operating systems. The z15 is a state-of-the-art data and transaction system that delivers advanced capabilities, which are vital to any digital transformation. The z15 is designed for enhanced modularity, which is in an industry standard footprint. This system excels at the following tasks: Making use of multicloud integration services Securing data with pervasive encryption Accelerating digital transformation with agile service delivery Transforming a transactional platform into a data powerhouse Getting more out of the platform with IT Operational Analytics Accelerating digital transformation with agile service delivery Revolutionizing business processes Blending open source and Z technologies This book explains how this system uses new innovations and traditional Z strengths to satisfy growing demand for cloud, analytics, and open source technologies. With the z15 as the base, applications can run in a trusted, reliable, and secure environment that improves operations and lessens business risk.

#### Big Blues Profile Books(GB)

This IBM Redguide™ publication looks back on the key decisions that made the data lake successful and looks forward to the future. It proposes that the metadata management and governance approaches developed for the data lake can be adopted more broadly to increase the value that an organization gets from its data. Delivering this broader vision, however, requires a new generation of data catalogs and governance tools built on open standards that are adopted by a multi-vendor ecosystem of data platforms and tools. Work is already underway to define and deliver this capability, and there are multiple ways to engage. This guide covers the reasons why this new capability is critical for modern businesses and how you can get value from it.

#### **IBM System Storage Open Systems Tape Encryption Solutions** IBM Redbooks

The IBM® Linear Tape File System™ (LTFS) is the first file system that works along with Linear Tape-Open (LTO) tape technology to set a new standard for ease of use and portability for open systems tape storage. In 2011, LTFS won an Engineering Emmy Award for Innovation from the Academy of Television Arts & Sciences. This IBM Redbooks® publication helps you install, tailor, and configure the IBM Spectrum™ Archive Single Drive Edition (SDE) and the IBM Spectrum Archive™ Library Edition (LE) products. LTFS is a file system that was originally implemented on dual-partition linear tape (IBM LTO Ultrium 5 tape drives (LTO-5) and IBM TS1140 tape drives). Now IBM

Spectrum Archive SDE and LE support IBM LTO Ultrium 8, 7, 6, or 5 tape drives, and IBM TS1155, IBM TS1150, and IBM TS1140 tape drives. IBM Spectrum Archive LE supports the IBM TS4500 tape library, IBM TS3500 tape library, IBM TS3310 tape library, IBM TS3200 tape library express, IBM TS3100 tape library express, and IBM TS2900 tape autoloader express. IBM Spectrum Archive makes tape look and work like any removable media, such as a USB drive. Files and directories appear on the desktop as a directory listing. It is now simple to drag files to and from tape. Any application that is written to use disk files works with the same files on tape. IBM Spectrum Archive SDE supports stand-alone drives only. IBM Spectrum Archive LE supports tape libraries. IBM Spectrum Archive LE presents each cartridge in the library as a subdirectory in the LTFS file system. With IBM Spectrum Archive LE, you can list the contents and search all of the volumes in the library without mounting the volumes by using an in-memory index. This publication is intended for anyone who wants to understand more about IBM Linear Tape System products and their implementation. This book is suitable for IBM clients, IBM Business Partners, IBM specialist sales representatives, and technical specialists.

#### ABCs of IBM z/OS System Programming Volume 3 IBM.Com/Redbooks

This comprehensive, 35-chapter book is the ultimate resource and a "must-have" for every professional working with the i5/iSeries. It is perfect for novice and intermediate programmers as well as for system administrators and operators. In simple, straightforward style, the authors explain core i5/iSeries concepts and show you step by step how to perform a wide variety of essential functions. The book includes sections on installation, operations, administration, system architecture, programming, the Internet, and troubleshooting. These sections are organized in free-standing style so you don't have to read the book from cover to cover or even sequentially; you can reference the chapters that interest you most, skip some, and jump back and forth as needed. It even contains a helpful glossary to act as a fast reference for all the terms you need to know. Completely updated through i5/OS V5, the fourth edition of this best-selling book contains page after page of information covering RPG IV and Java programming, system values, database and SQL, important system security information, the i5/iSeries as an Internet server, and much more. You'll learn the essential technical concepts you need to get up to speed on all areas of the i5/iSeries, and your increased understanding of the i5/iSeries will boost your productivity. Even if you have a previous edition of this book, you'll want to get this new edition with all of the V5 update and brand new topics like: iSeries Navigator Java SQL iSeries Access HTTP Server Qshell Client/Server and TCP/IP Client Access This book is a learning tool and valuable reference you will use for years to come. As one satisfied reader put it, "If you could own only one i5/iSeries book, this would be it." With "IBM i5/iSeries Primer," Fourth Edition you will: Learn how to install an i5 server Gain a comprehensive knowledge of i5/iSeries operations Understand libraries, objects, library lists, and everything you need to know about files Be able to configure a system Explore programming basics, including how to use utilities, journaling, and commitment control Discover what to do in case of trouble, how to request help from IBM, how to report problems, and how to manage PTFs"

#### **IBM Spectrum Archive Single Drive Edition and Library Edition: Installation and Configuration Guide** Pearson Education

The Tao of Philosophy is a literary adaptation of talks selected to introduce the new "Love of Wisdom" series by Alan Watts to today's audiences. The following chapters provide rich examples

of the way in which the philosophy of the Tao is as contemporary today as it was when it flourished in China thousands of years ago. Perhaps most significantly, these selections offer modern society a clearer understanding of what it will take for a successful reintegration of humans in nature.

*Business Marketing Management* IBM Redbooks

The superabundance of data that is created by today's businesses is making storage a strategic investment priority for companies of all sizes. As storage takes precedence, the following major initiatives emerge: Flatten and converge your network: IBM® takes an open, standards-based approach to implement the latest advances in the flat, converged data center network designs of today. IBM Storage solutions enable clients to deploy a high-speed, low-latency Unified Fabric Architecture. Optimize and automate virtualization: Advanced virtualization awareness reduces the cost and complexity of deploying physical and virtual data center infrastructure. Simplify management: IBM data center networks are easy to deploy, maintain, scale, and virtualize, delivering the foundation of consolidated operations for dynamic infrastructure management. Storage is no longer an afterthought. Too much is at stake. Companies are searching for

more ways to efficiently manage expanding volumes of data, and to make that data accessible throughout the enterprise. This demand is propelling the move of storage into the network. Also, the increasing complexity of managing large numbers of storage devices and vast amounts of data is driving greater business value into software and services. With current estimates of the amount of data to be managed and made available increasing at 60% each year, this outlook is where a storage area network (SAN) enters the arena. SANs are the leading storage infrastructure for the global economy of today. SANs offer simplified storage management, scalability, flexibility, and availability; and improved data access, movement, and backup. Welcome to the cognitive era. The smarter data center with the improved economics of IT can be achieved by connecting servers and storage with a high-speed and intelligent network fabric. A smarter data center that hosts IBM Storage solutions can provide an environment that is smarter, faster, greener, open, and easy to manage. This IBM® Redbooks® publication provides an introduction to SAN and Ethernet networking, and how these networks help to achieve a smarter data center. This book is intended for people who are not very familiar with IT, or who are just starting out in the IT world.

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